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TITLE: MANUFACTURE OF ISOTROPIC BONDED MAGNET

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ABSTRACT:
PURPOSE: To efficiently manufacture various kinds of bonded magnets having different magnetic characteristics by a method wherein magnet powder is molded into the prescribed shape when its coercive force is 6 KOe or smaller, then it is deposited and cured in a state as it is, and a desired coercive force is obtained.

CONSTITUTION: Samarium cobalt Sm<SB>2</SB>Co<SB>17</SB> alloy is pulverized into grains of 4 μm in average grain diameter, and after said powder has been molded in a magnetic field, it is sintered. This sintered body of raw material is pulverized, it is sifted out, and magnet powder of 200 μm in average diameter is formed. After said magnet powder has been formed into the prescribed shape without using an auxiliary molding agent, and an aging treatment is performed at 800°C under vacuum by changing the period of treatment in several ways. Lastly, epoxy resin is impregnated in the vacuum state, an after cure is performed, and a bonded magnet which is integrally formed with resin is manufactured. Then, the bonded magnet having various kinds of coercive forces can be manufactured from a single material composition by manipulating the aging treatment (period of treatment and the like).